

Application Serial No. 09/023,095  
Attorney's Docket No.:10559-395001

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently amended) A method comprising:

storing an instruction and a multiple bit exception status information word, the state of bits of said multiple bit exception word representing multiple different kinds of exceptions;

using said exception word to align an instruction associated with said exception status word; and

issuing ~~[[the]]~~at least part of an aligned instruction and at least part of the exception status ~~[[information]]~~ word in parallel.

2. (Previously presented) The method of Claim 1, further comprising:

detecting a width of the instruction prior to said issuing the instruction and at least part of the exception status information in parallel.

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3. (Previously presented) The method of Claim 1, wherein said issuing the instruction and at least part of exception status information in parallel comprises:

sending the instruction to a decoder; and

sending the exception status information through an OR gate to exception handling logic.

4. (Currently amended) The method of Claim 1, further comprising:

fetching at least one data block;

generating exception status information about an instruction within the data block;

storing the exception status information with the data block; and

detecting at least part of an instruction within the data block.

5. (Original) The method of Claim 4, wherein generating exception status information includes generating information identifying that a particular exception condition was detected.

6. (Original) The method of Claim 4, wherein generating exception status information comprises generating information

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indicating that a particular exception condition was not detected.

7. (Original) The method of Claim 4, further comprising:  
if only part of the instruction is in the data block,  
fetching another data block containing the rest of the  
instruction prior to issuing the instruction.

8. (Previously presented) The method of Claim 7, wherein  
said storing the exception status information represents storing  
the whole instruction in the multiple data blocks.

9-16. (Canceled)

17. (Currently amended) A system comprising:  
a static random access memory device; and  
a processor coupled to the memory device, wherein the  
processor includes an execution unit and a control unit, the  
control unit including a prefetch unit and exception handling  
logic, the control unit adapted operates to:  
fetch at least one data block;  
generate exception status information about the data block,  
the exception status information being a multiple bit exception  
status information word, the state of said multiple bit

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exception word representing multiple different kinds of exceptions;

store the exception status information and the data block in the prefetch unit;

detect at least part of an instruction within the data block;

align said at least part of said instruction, based on said exception status information; and

in parallel, issue the instruction to the execution unit and issue at least part of the exception status information to the exception handling logic.

18. (Original) The system of Claim 17, wherein the control unit is further adapted to:

fetch another data block;

generate additional exception status information about the another data block; and

store the additional exception status information and the another data block in the prefetch unit.

19. (Original) The system of Claim 17, wherein the prefetch unit includes at least two prefetch buffers.

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20. (Original) The system of Claim 17, wherein issuing the instruction and at least part of exception status information in parallel comprises:

sending the instruction to the decoder; and

sending the exception status information through an OR gate to the exception handling logic.